Economical Large Digit Display LD4-SG for strain bridge input

4 x 57mm high LED digits



Features

- 57mm high digits (visible to 25m)
- Displays in engineering units (scaleable)
- High brightness LED displays
- User selectable decimal point position
- Pushbutton calibration and setup
- Digital filter, improves stability. Uses weighted average method to reduce effects of short term interference
- Two alarm/control relay outputs (5A). The relays can be configured with high and/or low trip points and for normally open or normally closed operation
- Two point and single point offset calibration scaling methods available
- High and low limits can be set for visual alarm can be set to cause display to flash the value on the display or to display error message -or -
- Rugged, weatherproof, IP65 rated housing
- Zero range limit facility
- Remote input to perform special functions, e.g.
 Brightness level switching, high/low memory, peak
 hold, display hold, setpoint only access, security
 lockout, tare, zero or calibration scale switching.
 The calibration scale switching function allows two sets
 of calibration scaling settings to be used with the user
 toggling between each via a remote switch
- 2 year guarantee

Description

The LD4-SG is designed for use with a 4-wire strain bridge input.

The monitor can be used with load cells, pressure transducers, level transducers etc with a mV/V output. The LD4-SG provides excitation voltage to the transducer (5VDC or 10VDC - user selectable) and can be configured for input ranges of 0.5mV/V to 20mV/V and above. The range setting is made by jumpers in the unit and by a function setting.

Some jumpers are set within the instrument to define the input type but calibration, alarm settings, decimal point etc are all carried out using the push buttons on the main board of the instrument.

The 57mm LED display is housed in a rugged, IP65 rated, UV stabilised ASA enclosure.



LD4SG-2.5-0

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Technical Specifications

Specifications are subject to change without notice

Input types Load cell, pressure transducer,

level sensor, etc - 4 wire type.

Up to 20mV/V signal input

Excitation 10V or 5V, link selectable. 5V

must be used if load cell resistance is less than 350Ω

(nominal)

Accuracy 0.1% of full scale when

calibrated

Sample Rate 4 per second ADC resolution 1 in 20,000

ADC conversion Dual slope ADC
Microprocessor MC68HC11 CMOS

Ambient temperature -10°C to 60°C Humidity 5% to 95%

Outputs 2 x setpoint relays, form A,

rated 5A at 240VAC (resistive

load)

Power Supply See order code table

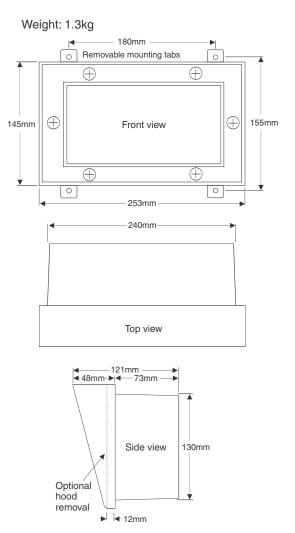
(type is factory configured)

Power Consumption AC supply: 15VA max,

DC supply: depends on supply voltage, typically 500mA (2A peak) for 24VDC using non

isolated DC supply

Weight and Dimensions



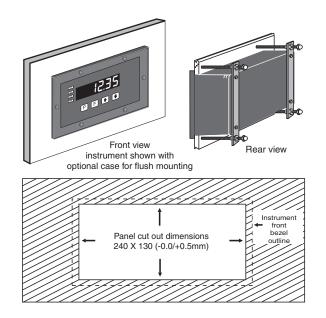
Order Codes

Order Code	Display	Supply Voltage	
LD4-SG-240-574	4 x 57mm red LED	240VAC	
LD4-SG-110-574	4 x 57mm red LED	110VAC	
LD4-SG-DCN-574	4 x 57mm red LED	15-24VDC non isolated	
LD4-SG-DC-574	4 x 57mm red LED	12-48VDC isolated	
LD4-SG-60VDC-574	4 x 57mm red LED	24-60VDC isolated	

Options

Option Code	Description
LD4-OPT-C2	RS232 serial comms, non-isolated
LD4-OPT-C4	RS485 serial comms, non-isolated
LD-MTG-PM-KIT	Panel mount kit incl brackets & screws
LD-HOOD-REMOVAL	Front hood removal

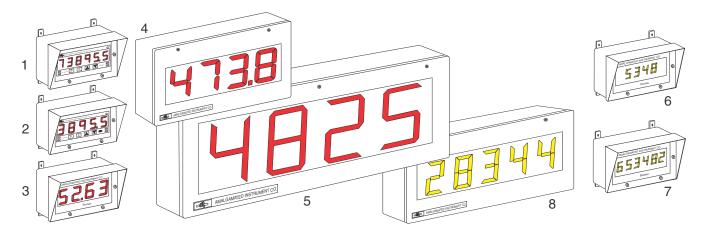
Panel Mounting Options



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Displays available in Large Digit Series



No.	LED digit size	No of digits	No.	"FLIP" digit size	No of digits
1	38mm	6	6	39mm - selected models	4
2	45mm	5	7	39mm - selected models	6
3	57mm or 58mm	4	8	100mm	4, 5 and 6
4	100mm	4 and 6	38, 58, 100 and 200mm LED displays		
5	200mm	4	are available in red, green, amber or white		

Applications/input types available with large digit display models

- Analog input, process transmitters etc. ± 20 mA, 4-20mA or ± 2.5 VDC or ± 25 VDC
- Pulse input, rate, total, count, grand total (encoders, switches, proximity sensors etc.)
- Temperature RTD, thermocouple, 4-20mA
- Weighing 4 or 6 wire mV/V output loadcells
- Pressure measurement 4 or 6 wire mV/V pressure sensors or 4-20mA analog transducers
- Liquid level measurement 4 or 6 wire mV/V pressure sensors or 4-20mA analog transducers
- Serial input RS232, RS485, Serial current loop for slave displays etc.
- Synchronous Serial Interface (SSI) for high accuracy position etc. measurement
- Binary, BCD or Gray Code input
- Real Time clock with alarms
- Multifunction timer elapsed time, stopwatch, run time etc.

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